FIG. 1

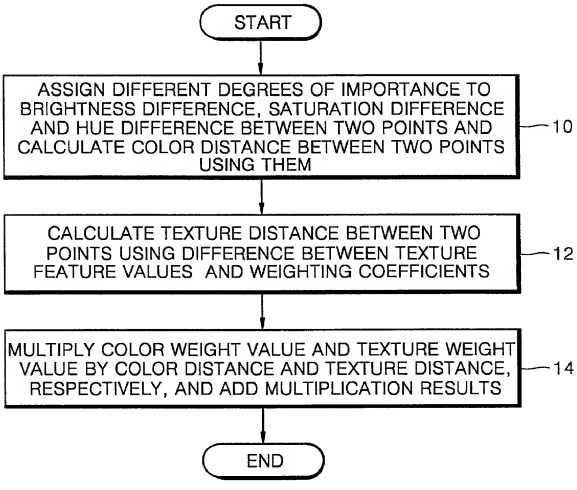

FIG. 2

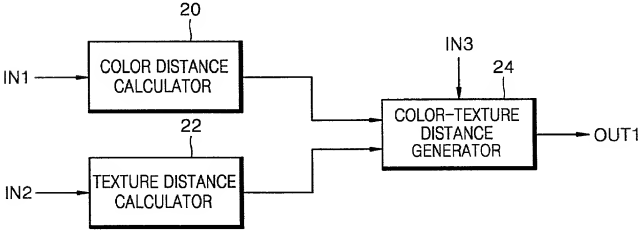

FIG. 3

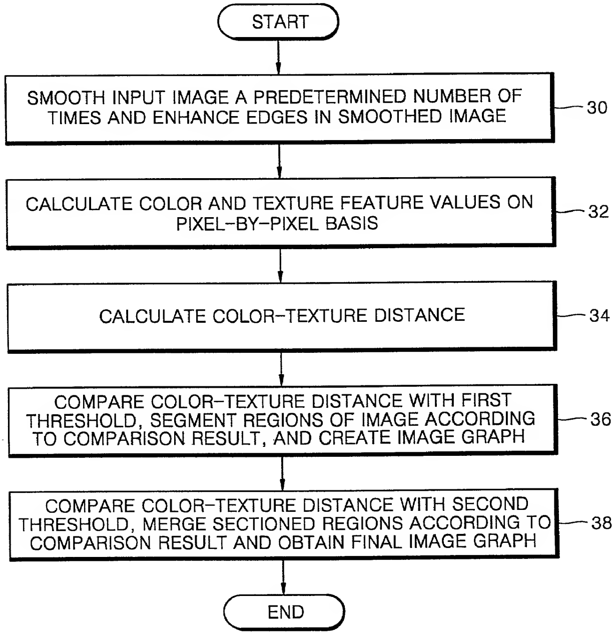
START
SMOOTH INPUT IMAGE A PREDETERMINED NUMBER OF TIMES AND ENHANCE EDGES IN SMOOTHED IMAGE
30
CALCULATE COLOR AND TEXTURE FEATURE VALUES ON PIXEL-BY-PIXEL BASIS
32
CALCULATE COLOR-TEXTURE DISTANCE
34
COMPARE COLOR-TEXTURE DISTANCE WITH FIRST THRESHOLD, SEGMENT REGIONS OF IMAGE ACCORDING TO COMPARISON RESULT, AND CREATE IMAGE GRAPH
36
COMPARE COLOR-TEXTURE DISTANCE WITH SECOND THRESHOLD, MERGE SECTIONED REGIONS ACCORDING TO COMPARISON RESULT AND OBTAIN FINAL IMAGE GRAPH
38
END

FIG. 4

FIG. 5

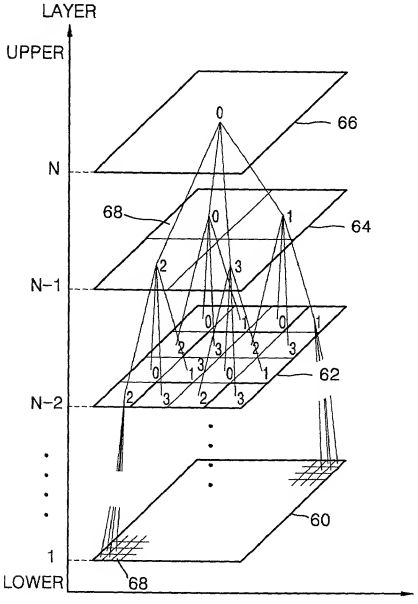
LAYER
UPPER
N
N-1
N-2
1
LOWER
66
68
64
62
60
68

FIG. 6

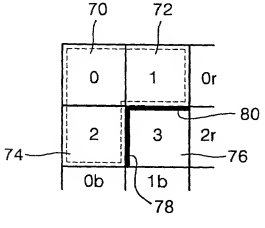
70
72
0
1
0r
80
2
3
2r
74
76
0b
1b
78

FIG. 7

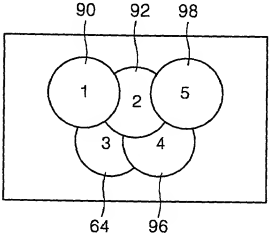

FIG. 8

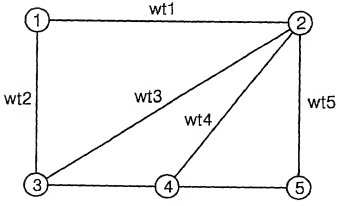

FIG. 9

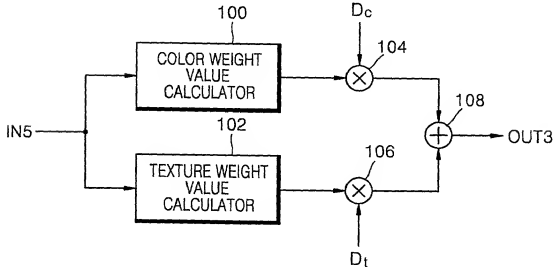

FIG. 10

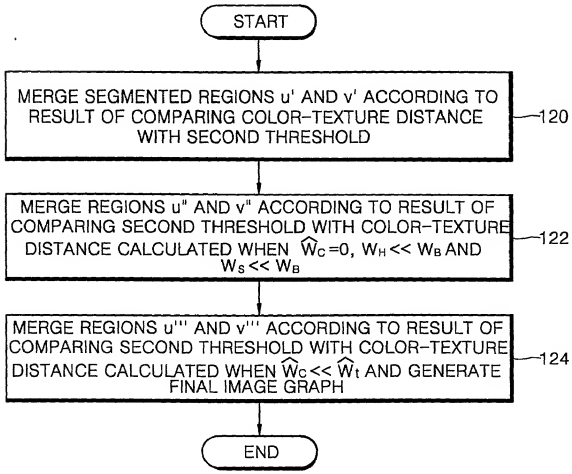
START
MERGE SEGMENTED REGIONS u' AND v' ACCORDING TO RESULT OF COMPARING COLOR-TEXTURE DISTANCE WITH SECOND THRESHOLD
120
MERGE REGIONS u" AND v" ACCORDING TO RESULT OF COMPARING SECOND THRESHOLD WITH COLOR-TEXTURE DISTANCE CALCULATED WHEN $\widehat{W}_C=0$, $W_H << W_B$ AND $W_S << W_B$
122
MERGE REGIONS u''' AND v''' ACCORDING TO RESULT OF COMPARING SECOND THRESHOLD WITH COLOR-TEXTURE DISTANCE CALCULATED WHEN $\widehat{W}_C << \widehat{W}_t$ AND GENERATE FINAL IMAGE GRAPH
124
END

FIG. 11

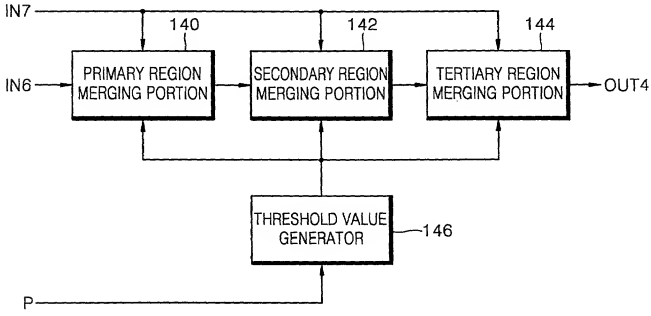
IN7
140
142
144
IN6
PRIMARY REGION MERGING PORTION
SECONDARY REGION MERGING PORTION
TERTIARY REGION MERGING PORTION
OUT4
THRESHOLD VALUE GENERATOR
146
P

FIG. 12A

FIG. 12B

FIG. 13A

FIG. 13B

FIG. 14A

FIG. 14B